

BRING WELD TRAINING TO LIFE

TEACHING AID TOOLBOX



ENHANCE THE LEARNING EXPERIENCE

Every good instructor knows the education process has visual and tactile dimensions that can augment learning. If a student can see a tool and hold it in his or her hand, the learning experience immediately shifts to a higher level and the result is a greater depth of understanding.

Lincoln Electric has applied this concept to welding and cutting training with the Teaching Aid Toolbox, a ready-made instructional resource that contains a number of visual aids that can be used in the classroom setting. This mobile cabinet – fully stocked with an array of welding tools and related hardware – brings the curriculum typically associated with the shop setting into the classroom setting. These teaching aids are designed to complement Lincoln Electric's U/LINC® welding and cutting curriculum for each process.

Different students come to the learning environment with different learning styles. The contents of the Teaching Aid Toolbox are ideal for any learning style, including visual and tactile.

At Lincoln Electric, we know that teaching is about connecting with your students. Bring the Teaching Aid Toolbox into your classroom and help each student experience the tools of welding and cutting before they hit the lab.

Processes »

SMAW, GTAW, GMAW, FCAW, plasma cutting, thermal cutting

Product Numbers »

K4442-1 Teaching Aid Toolbox with Contents

WELDING TRAINING, UP CLOSE AND PERSONAL

Curriculum in a cabinet

- Comprehensive array of tools and accessories from various welding and cutting processes.
- Cutaway Harris® gas regulator and oxyfuel torch allow students to get familiar with the tool's structure, operation and application.

Build on the basics

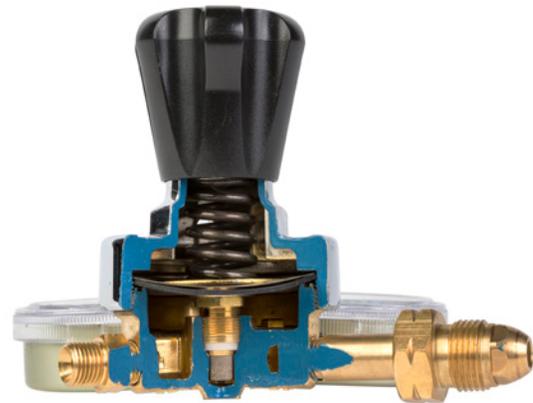
- The Teaching Aid Toolbox is fully supported with Lincoln Electric U/LINC® curriculum lesson plans and more.

Bridge the classroom and the lab

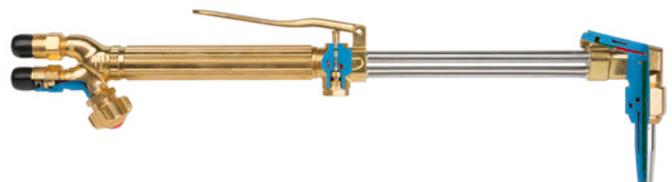
- Bring actual welding and cutting tools into the classroom to better illustrate the principles of each process.
- Boosts learning to the next level of understanding by illustrating joints, cuts, equipment and related techniques.
- Included weld sample coupons allow instructors to illustrate various welding joints and typical beads
- A set of weld discontinuity flashcards allow you to show and discuss common weld flaws.



Teaching Aid Toolbox



Cutaway Harris® Gas Regulator



Cutaway Harris® Oxyfuel Cutting Torch



DRAWER 1 - SMAW



DRAWER 2 - GTAW



DRAWER 3 - GMAW / FCAW

WHAT'S INCLUDED

DRAWER 1 - SMAW

T300 Electrode Holder
 EH-305HD Magnum® Electrode Holder
 200A Electrode Holder
 GC-300 Work Clamp
 3/32 in. (2.4 mm) Bare Stick Electrode Rod
 1/8 in. (3.2 mm) Bare Stick Electrode Rod
 5/32 in. (4.0 mm) Bare Stick Electrode Rod
 Excalibur® 7018 MR 3/32 in. (2.4 mm) 1 lb Tube Stick Electrode

DRAWER 2 - GTAW

PTA-17V Torch Body
 PTA-17V Torch Body
 PTA-17F Torch Body
 PTA-17 Torch Handle
 PTA-17 3/32 in. (2.4 mm) Collet
 PTA-17 3/32 in. (2.4 mm) Collet Body
 PTA-17 Backcap, Long
 PTA-17 Alumina Nozzle #6
 GLK-3 Basic TIG Kit

DRAWER 3 - GMAW / FCAW

Magnum® PRO 550 Assembly
 Magnum® PRO 250L Assembly
 Flux-Cored/MIG Wire Drive Roll 0.035 - .045 in. (0.9 - 1.1 mm) Knurled
 Drive Roll Kit Combination 0.035/.045 in. (0.9-1.1 mm) Solid Wire Smooth
 Magnum® PRO MIG Gun Diffuser, 550A, Slip-On
 Magnum® PRO Gas Nozzle 550A, Slip-On, Flush, 3/4 in. ID
 Magnum® PRO Gas Nozzle 350A, Thread-On, Flush, 1/2 in. ID
 Magnum® PRO Gas Nozzle 350A, Thread-On, Recessed, 1/2 in. ID
 Magnum® PRO Bottleneck Gas Nozzle 350A, Thread-on, Flush, 1/2 in. ID
 Magnum® PRO Gas Nozzle 350A, 1/8 In. Stickout, Thread-on, 1/2 in. ID
 Magnum® PRO Gas Nozzle 350A, Flush, Thread-On, 3/8 in. ID
 Magnum® PRO MIG Gun Diffuser, 350A, Slip-On
 Magnum® PRO Gas Nozzle 350A, Flush, Slip-On, 1/2 in. ID
 Magnum® PRO MIG Gun Diffuser, 350A, Extended Reach, Thread-On
 Magnum® PRO Gas Nozzle 350A, Extended Reach, Thread-On,
 Recessed, 1/2 in. ID
 Magnum® PRO Contact Tip 550A, 0.035 in Dia.
 Magnum® PRO Contact Tip, 350A, Tapered, 0.035 in Dia.
 Magnum® PRO 350 Gas Diffuser Thread-On
 Magnum® PRO Barrel 550 Nozzle Assembly 550A, Thread-On,
 Recessed, 5/8 in. ID
 Magnum® PRO MIG Gun Diffuser, 550A, Thread-On



DRAWER 4 - CUTTING



DRAWER 5 - WELD SAMPLES

WHAT'S INCLUDED

DRAWER 4 - CUTTING

- Tomahawk® LC40 Plasma Cutting Torch Assembly
- Tomahawk® LC40 Electrode
- Tomahawk® LC40 Swirl Ring
- Tomahawk® LC40 Nozzle (40 A)
- Cutaway Harris® Oxyfuel Torch
- Cutaway Harris® Gas Regulator
- Acetylene Heating Assembly
- Acetylene Two-Piece Preheat Tip
- Cutting Tip

DRAWER 5 - WELD SAMPLES

- Butt Joint - 2 x 6 in. (50.8 x 152.4 mm) 10ga
- Corner Joint - 2 x 6 in. (50.8 x 152.4 mm) 10ga
- Edge Joint - 2 x 6 in. (50.8 x 152.4 mm) 10ga
- Lap Joint - 2 x 6 in. (50.8 x 152.4 mm) 10ga
- Tee Joint - 2 x 6 in. (50.8 x 152.4 mm) 10ga
- Three Pass T Joint 100/75/50 -
1/4 x 3 x 8 in. (6.35 x 76.2 x 203.2 mm)
- 6 Pass Groove 100/83/66/50/33/16 -
3/8 x 8 x 7 in. (9.53 x 203.2 x 177.8 mm)
- Discontinuities Flash Cards

ORDERING INFORMATION

Product Number	Description	Product Dimensions W x D x H – in. (mm)	Weight lbs. (kg)
K4442-1	Teaching Aid Toolbox with Contents	26.5 (673.1) x 18 (457.2) x 34.5 (876.3)	125 (56.7)
K4442-2	Replacement Cutaway Harris® Oxyfuel Torch (1 included with K4442-1 Toolbox)	18 (457.2) x 6 (152.4) x 2 (50.8)	4 (1.8)
K4442-3	Replacement Cutaway Harris® Gas Regulator (1 included with K4442-1 Toolbox)	6 (152.4) x 7.5 (190.5) x 5 (127)	4 (1.8)

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